

UNLEASH IMAGINATION. SHAPE THE FUTURE.

November 12, 2020



clarkefoundation.org

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Program

11:45am (EST) Registrant sign-on for Live Clarke Conversation

Noon-1pm (EST) Clarke Conversation on Imagination

Moderated by Cady Coleman, Ph.D.

Featuring 2020 Life Achievement Awardee William H. Draper, III

2020 Innovation Awardee CERN Fabiola Gianotti, Ph.D., Director General

2020 Imagination in Service to Society Awardee Ted Chiang

Break

1:30-2pm (EST) Virtual Table Sessions

Cady Coleman, moderated by Martin Collins, Ph.D.

William Draper, moderated by Walda Roseman

Fabiola Gianotti, moderated by Joseph Bravman, Ph.D.

Ted Chiang, moderated by Timothy Logue

A video of the entire Clarke Conversation will be uploaded to the Clarke Foundation's YouTube channel by end of day November 12.

Winners of the Book Auction will be contacted on November 13.

Why Unleash Imagination?

The Arthur C. Clarke Foundation and its partners, the Arthur C. Clarke Center for Human Imagination of UCSD and KID Museum, launched "Unleash Imagination—Shape the Future" in 2017 to foster imaginative young leaders and an educational and workplace environment that promotes fresh ideas for addressing some of society's greatest threats and opportunities. Sir Arthur understood that humankind's most powerful tool to shape its future is its imagination. His own prolific work in science fiction and science fact seamlessly melded cognitive and creative elements together. Unleash Imagination explores the partnership between imagination and empiricism to create a better world. Insights gained through the first three years of Unleash Imagination, 2017–2020, will help the Clarke Foundation and its partners build dynamic intergenerational collaboration to promote ingenuity in how we lead, rather than trail, key challenges facing Planet Earth and its inhabitants.

A centerpiece of Unleash Imagination is its intergenerational dimension. All generations have something to teach one another and contribute to the future. Children have naturally rich imaginations but have yet to acquire expertise and experience. Adults have expertise and experience but can be unwilling to accept the time and risks involved in testing fresh ideas. Intergenerational collaboration strengthens critical decision-making and develops a pipeline of innovative talent and solution seekers.



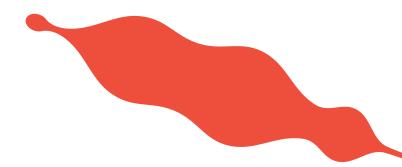
Unleash Imagination - Shape the Future

The Clarke Foundation's signature program Unleash Imagination: Shape the Future, our intergenerational program aimed at stimulating renewed attention to imagination as a critical tool in helping humanity actively choose its future. This future, already with us, challenges us to reimagine a range of global and historic complexities — the Earth's environment, the spread of artificial intelligence and smart electronic networks, the quest for off-Earth habitable planets, the very idea of what it means to be human, and for all to be treated with dignity and respect. We look to inspire leaders, workers, educators, and citizens to see imagination as a critical tool for preparing organizations, communities, governments, and our fellow humans around the world

Unleash Imagination programs build upon the Arthur C. Clarke Awards, which we created years ago and give us an opportunity to recognize and hear from extraordinary individuals and organizations whose imaginative endeavors have paved new paths.

A heightened appreciation for human imagination is now more urgent than ever. We see more clearly the repercussions of our failure of imagination to anticipate and prepare for difficult times, as well as to articulate the values we wish to promote for humanity's future. We are witnessing in these difficult times enormous creativity and innovation emerging from companies, non-profits and individuals of all ages. Such creativity reinforces the importance of imagination in highlighting the complexity of the problems before us, anticipating future challenges, and applying it as an essential tool for creating solutions.

More details can be found at www.clarkefoundation.org.



Unleash Imagination combines:

1. Young Leaders program focuses on science, technology, engineering, arts, and math powered by imagination (i-STEAM). This includes the Clarke Changemakers and a Youth Video Challenge. Over time, the vision is for Young Leaders to establish Clarke Changemaker Clubs across the country, connecting imaginative young people into a broad alumnus.



Sisters, Stephanie and Elizabeth Vicarte, were two winners in the first Unleash Imagination Youth Video Challenge for their short video that focused on cyberbullying.

2. Clarke Conversations on Imagination bring together exceptional professionals spanning disciplines in business, education, the arts, science and technology, policy, and other communities to promote a culture for fresh ideas open to innovative and creative young workers.



Google's Vint Cerf and MIT's Ian Wickersham challenge each other and the audience in a Clarke Conversation on December 8, 2017.

3. The Intergenerational Forum providing the opportunity for heightened intergenerational communication and collaboration, helping today's leaders build bridges to the future through the unique perspectives of youth.



2019 Intergenerational Forum participants, left to right: Josh Izenberg, Mickeyla Clark, Mary Frost, Karla Stephan, and Stacy Swann. Photo by Marta Nammack.

4. The Clarke Awards, which recognize and celebrate the world's most accomplished and creative thinkers, scientists, writers, technologists, business leaders, and innovators.



2019 Clarke Awardees: Astrophysicist Martin J. Rees, Author/Producer George R.R. Martin, and C-SPAN founder Brian Lamb. Photo by Marta Nammack.

2020 Clarke Conversation on Imagination

Imagination, Crises, and Renewal

We celebrate imagination. But we often fail to consider the conditions that allow imagination to flourish and to be an active resource for communal conversation—to use imagination as a means for understanding and renewal in our public dialogue.

In our present moment of crisis, we turn to imagination to comprehend our "now" and what could be "next". The COVID-19 pandemic has affected and upended life nearly everywhere, throwing into high relief our collective social and economic strengths and weaknesses. Piling onto these unprecedented challenges in the U.S. and elsewhere are cries for eliminating systemic social and racial inequities. And throughout these crises, we continue to bear witness to what Arthur Clarke warned as "our planet crying out" for us to listen and take action to stem global warming. In crises of this scale and impact, imagination becomes a lifeline from the world we knew to one that we want to make better. But better how? Imagination—forward-looking imagination—becomes a vital tool to think through our values, our technologies, our social and political arrangements, our interdependencies at home, and with peoples in distant places.

The 2020 Clarke Conversation takes up the theme of crisis and imagination—how crisis emphasizes the need to reexamine through the lens of imagination the broad sweep of our relationships, past choices, and our approach to human dignity. In this one-hour live video event, the three 2020 Clarke Awardees will reexamine and reimagine our possible futures. The Conversation will be moderated by Cady Coleman, Ph.D., chemist, musician, explorer, and retired astronaut who spent two missions on the ISS.

2020 Clarke Awardees and Clarke Conversation Participants

Lifetime Achievement Awardee: William Draper, a venture capitalist pivotal in the development of Silicon Valley and prominent federal government leader.

Innovator Awardee: CERN, The European Organization for Nuclear Research, incubator of the World Wide Web and the world's largest particle physics laboratory. Accepting on behalf of CERN will be Dr. Fabiola Gianotti, the Director General.

Imagination in Service to Society Awardee: Ted Chiang, much awarded writer of fiction, including Hugos and Nebulas. Stories of Your Life and Others has been translated into 21 languages, and <u>Exhalation</u> was chosen by The New York Times as one of the 10 Best Books of 2019.

Underscoring the Foundation's belief that intergenerational communication and exchange is vital to exploring and solving big problems, there will be dozens of high school and college students participating in the Clarke Conversation and a select handful participating in the Virtual Table Sessions that will follow.

Virtual Table Sessions

The Clarke Foundation's Unleash Imagination mission is dependent on corporate and individual sponsors and donors. For the 2020 Unleash Imagination Clarke Conversation sponsors, we introduced Virtual Table Sessions. Immediately following the Clarke Conversation, four Virtual Table Sessions, each limited to 12 participants, hosted by the Awardees Ted Chiang, Bill Draper and Fabiola Gianotti, and the Clarke Conversation moderator, Cady Coleman, will run in parallel for 30 minutes. Participants in these informal discussions can bring up any topic or question. The minimum sponsorship/donation amount to participate in a Virtual Table Session is \$2,000.

The Arthur C. Clarke 2020 Lifetime Achievement Award William H. Draper



In 1959, Draper joined his father's firm, Draper, Gaither & Anderson, the first venture capital company on the West Coast. In 1962, he co-founded Draper & Johnson Investment Company; and in 1965, he founded Sutter Hill Ventures, which to this day remains one of the top venture capital firms in the country. Based in Palo Alto, Sutter Hill Ventures has helped organize and finance several hundred high technology manufacturing companies in the fields of networking and computer technology, business and financial services, healthcare, web development, and pop culture, and have been known to invest in angel funds.

Draper has played an international leadership role in expanding the world economy. He served from 1981 to 1986 as president and Chairman of the Export-Import Bank of the United States, appointed by President Ronald Reagan. In this post, Draper assumed a leadership role in U.S. efforts to sustain world trade in the face of major liquidity problems among the developing countries. In 1986, he became the head of the world's largest source of multilateral development grant assistance, the United Nations Development Program. As the second highest ranking individual in the United Nations, Draper oversaw nearly 10,000 international aid projects and was instrumental in leadership of several global initiatives, such as the international Education for All movement (beginning formally with the 1990 Conference in Jomtien, Thailand), the 1995 Beijing Women's' Conference, and the 1995 Social Summit in Copenhagen, Denmark.

Draper returned to his venture capital roots in 1994 and founded Draper International with Robin Richards Donohoe. It's the first venture capital fund investing in private companies with operations in India. In 2002, he co-founded Draper Richards LP, a venture capital fund that invests in early-stage technology companies in the U.S., and he also founded the Draper Investment Company, concentrating on seed investments in Europe and Asia.

With Robin Richards Donohoe, Draper co-founded the Draper Richards Foundation. In 2010 Robert Steven Kaplan, formerly vice-chairman of Goldman Sachs and currently the thirteenth president and CEO of the Federal Reserve Bank of Dallas, joined as co-chair in 2010. The global venture philanthropy firm supports early-stage, high impact social enterprises. Since 2002 they have invested in 155 social entrepreneurs working in

a variety of issue areas. Their current portfolio includes organizations working both domestically and internationally helping to provide critical access to healthcare, education, legal resources, economic empowerment, food security, social justice, water and sanitation, transparency and accountability, and shelter. one of the earliest funders of Kiva, Room to Read, Grassroots Soccer, One Acre Fund, FoodCorps, and many others. Currently, Draper Richards Kaplan Foundation is deploying their third fund of \$65 million to support the next generation of 100 social enterprises that can change the world.

Draper has served numerous prominent community and global, educational, foreign relations, and arts organizations. He received his B.A. from Yale University, and his MBA from Harvard University. His popular book, The Startup Game: Inside the Partnership Between Venture Capitalists and Entrepreneurs, was published in 2011.

FEATURING THREE GENERATIONS OF SILICON VALLEY SUCCESS

THE STARTUP GAME



INSIDE THE PARTNERSHIP
BETWEEN VENTURE CAPITALISTS
AND ENTREPRENEURS

WILLIAM H. DRAPER III

FOREWORD BY ERIC SCHMIDT. EXECUTIVE CHAIRMAN OF GOOGLE

The Arthur C. Clarke 2020 Innovation Award CERN



What are the fundamental constituents of matter? What is the visible universe made of? And what is the nature of the dark matter that makes up 25% of the universe? These are some of the questions that CERN sets out to address. Ever since Europe's first scientific international organization was created in 1954, fundamental physics has been the Laboratory's core business, helping us to uncover what matter is made of and how it behaves at the most fundamental level.

The European Organization for Nuclear Research (French: Organisation européenne pour la recherche nucléaire), known as CERN, is a European research organization that operates the largest particle physics laboratory in the world. Founded by 12 European members, the Organization is based in a northwest suburb of Geneva on the Franco-Swiss border and currently has 23 Member States and eight Associate Member States. CERN is an official United Nations Observer. Today, CERN is host to a global community of some 18 000 scientists, engineers and support personnel representing over 100 nationalities.

CERN's main objective is to provide the <u>particle accelerators</u> and other infrastructure needed for high-energy physics research. Most of CERN's experiments are constructed and operated through international collaborations. The main site at <u>Meyrin</u> also hosts a large computing facility, which is primarily used to <u>store</u> and <u>analyse data</u> from experiments. Researchers need remote access to these facilities, so the lab has historically been a major <u>wide area network</u> hub. CERN is the birthplace of the <u>World Wide Web</u>, and lies at the heart of the Worldwide LHC Computing Grid, WLCG.

Scientific achievements

CERN's history is punctuated by major discoveries in particle physics. The Laboratory has played a leading role in the physics of the strong and electroweak interactions at work between particles, and in providing the experimental bedrock of the Standard Model of particle physics. The Standard Model is the theory that accounts for the basic constituents of the ordinary matter from which everything visible in the universe is made, and the forces at work between them. Highlights include:

- 1958: The first observation of a rare pion decay predicted by the emerging theory of weak interactions
- 1965: Fist observation of antinuclei simultaneously at CERN and at the US Brookhaven laboratory.

- 1968: The invention of multi-wire proportional chambers, sparking a revolution in particle detection techniques.
- 1971: The world's first hadron collider, the ISR, begins operation.
- 1973: The discovery of <u>neutral currents</u> in the <u>Gargamelle</u> bubble chamber.
- 1983: The discovery of W and Z bosons in the UA1 and UA2 experiments.
- 1989: The determination of the number of light <u>neutrino</u> families at the <u>Large</u> <u>Electron-Positron Collider</u> (LEP) operating on the Z boson peak.
- 1995: The first creation of antihydrogen atoms in the PS210 experiment;
- 1999: The discovery of direct <u>CP violation</u> in the <u>NA48 experiment</u>.
- 2010: The isolation of 38 atoms of antihydrogen.
- 2012: The discovery of a particle with mass around 125 GeV consistent with the long-sought Higgs boson by the ATLAS and CMS experiments.
- 2013: Confirmation that the new particle is a Higgs Boson, linked to the mechanism giving mass to elementary particles.
- 2015: The Large Hadron Collider (LHC) starts Run 2 at a new record collision energy of 13 TeV, the LHCb experiment announces the first observation of pentaquarks.
- 2017: Novel phenomena in proton and heavy-ion collisions reported by the ALICE experiment shed new light on the primordial Quark Gluon Plasma.
- 2019: Observation of CP-violation in particles containing charm quarks by the LHCb experiment.
- 2020: A new four-quark particle is discovered by LHCb.

Innovation at CERN

The <u>World Wide Web</u> grew from an initiative launched at CERN in 1980 by computer scientist Tim Berners-Lee, who proposed a new information management system for the Organization. Based on the concept of <u>hypertext</u>, Berners-Lee named his idea the World Wide Web. The first website was live by December 1990, and on 30 April 1993, CERN announced that the World Wide Web would be free to anyone. Today, CERN remains in the vanguard of ICT as host to the Worldwide <u>LHC Computing Grid</u>.

The Web is far from the only technology to have emerged from CERN. Another example stems from the 1968 invention of multi-wire proportional chambers, which not only revolutionised particle physics research, but also found applications in domains as diverse as port security and medical imaging. Medical technology is, in fact, a strong domain of application for CERN's innovations, with the Organization contributing to the powerful diagnostic tool of PET imaging, and to hadron therapy machines for cancer treatment. Today, CERN's Knowledge Transfer group manages a portfolio of technologies with applications ranging from cultural heritage to the environment.

The Arthur C. Clarke 2020 Imagination in Service to Society Award Ted Chiang



Since he was first published in 1990, Ted Chiang's fiction has won twenty-seven awards around the world. His first collection, Stories of Your Life and Others, has been translated into twenty-one languages, and his second collection, "Exhalation," was chosen by The New York Times as one of the 10 Best Books of 2019. He has written for The New York Times and The New Yorker magazine, and his work has been reprinted in Best American Short Stories. Ted's essays have often appeared in the New York Review of Science Fiction. His novella "Story of Your Life" was the basis for Denis Villeneuve's Oscar-nominated film "Arrival" starring Amy Adams. He collaborated with the artists Allora and Calzadilla to create "The

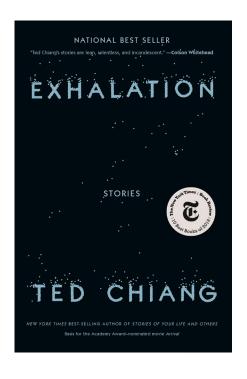
Great Silence," part of the permanent collection at Rome's National Museum of 21st Century Art.

Ted Chiang holds a degree in computer science and is a graduate of the Clarion Writers' Workshop. He was born in Port Jefferson, New York and currently lives outside of Seattle.

Bibliography

Collections

- Stories of Your Life and Others (2002)
- Exhalation (2019)



Chapbooks

- Hell Is the Absence of God (2002)
- The Merchant and the Alchemist's Gate (2007)
- <u>Exhalation</u> (2009)
- The Lifecycle of Software Objects (2010)
- The Great Silence (2016)

Short Fiction

- Tower of Babylon (1990)
- Division by Zero (1991)
- <u>Understand</u> (1991)
- Story of Your Life (1998)]
- Seventy-Two Letters (2000)
- Catching Crumbs from the Table (2000)
- Hell Is the Absence of God (2001)
- Liking What You See: A Documentary (2002)
- What's Expected of Us (2005)]
- The Merchant and the Alchemist's Gate (2007)
- Exhalation (2008)
- The Lifecycle of Software Objects (2010)]
- <u>Dacey's Patent Automatic Nanny</u> (2011)]
- The Truth of Fact, the Truth of Feeling (2013)
- The Great Silence (2015) with Allora and Calzadilla
- Book Excerpt: Stories of Your Life and Others (from "Seventy-Two Letters")
 (2016)
- Better Versions of You (2019)
- Anxiety Is the Dizziness of Freedom (2019)
- Omphalos (2019)]
- It's 2059, and the Rich Kids Are Still Winning (2019)

2020 Clarke Conversation Moderator



Dr. Cady Coleman

Dr. Cady Coleman is a former NASA Astronaut and Air Force Colonel with more than 180 days in space, accumulated during two space shuttle missions and a six-month expedition to the International Space Station (ISS), where she acted as the Lead Robotics and Lead Science officer.

Dr. Coleman is a vocal advocate for inclusion in STEM/STEAM fields and a sought after speaker on a wide range of topics. She recently co-anchored ABC News Live's coverage of the SpaceX launch and continues to consult on coverage of that mission. Other speaking highlights include the opening speech for TED 2011 from space, extensive NASA commentary for CNN, ABC and Fox, addressing the UN for World Ocean Day and TED Unplugged 2019.

Currently a research affiliate at the MIT Media Lab and Global Explorer in Residence at Arizona State University, Coleman consults on space-related work, including microgravity research. She serves on several boards, including the Smithsonian National Museum of Natural History, Greenfield Community College, Dent the Future, and Skycatch, an innovative A.I. company that provides 3D mapping data for timely decision-making. She is an advisor to Earthrise Alliance, which uses satellite imagery to provide context for environmental and social justice issues.

Cady lives in Western Massachusetts with her husband Josh Simpson, a glass artist, and their two sons. She is an amateur flute player, best known for her "Space Duet" with Ian Anderson of Jethro Tull and her work from space with the acclaimed Irish band, The Chieftains. She coached actress Sandra Bullock from the ISS in preparation for Bullock's astronaut role in "Gravity."

Unleash Imagination - Shape the Future Major Sponsor



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The Honorable Diana L. Dougan







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Google is proud to salute the 2020 winners of the Arthur C. Clarke Awards.











Congratulations to our 2020 Awardees, special thanks to Cady Coleman, gratitude to our program partners and the entire ACCF team.

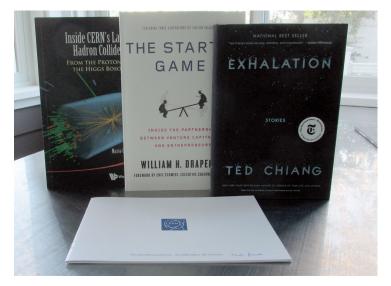
Walda W. Roseman ACCF Chair

> Omnisat applauds the Arthur C. Clarke Foundation for its 2020 Clarke Conversation: Imagination, Crises and Renewal



2020 Book Silent Auction

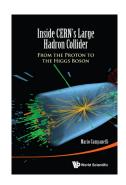
The Foundation is offering 10 identical bundles of the following publications, signed by the 2020 Clarke Awardees. The auction opens on October 21 at 9 am Eastern and closes on November 12 at midnight Eastern. The starting bid is \$150; the ten highest bids will be accepted. The winners will be notified on November 13. Once payment by credit card or check is secured, the books will be shipped to the successful bidder. All payments to ACCF are fully tax deductible, the Foundation is a registered 501(c)3 not for profit organization. Email your bids subject line: Auction Bid, to Monica Morgan, mojomo@verizon.net, include your shipping address and phone number.



Inside CERN's Large Hadron Collider: From the Proton to the Higgs Boson by Mario Campanelli

Signed by Dr. Fabiola Gianotti, Director General of CERN.

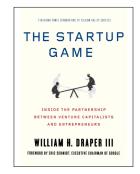
This illustrated book explains the historical development of particle physics, with special emphasis on CERN and collider physics. It describes in detail the LHC accelerator and its detectors, describing the science involved as well as the sociology of big collaborations,



culminating with the discovery of the Higgs boson. Readers are led step-bystep to understanding why we do particle physics, as well as the tools and problems involved in the field. It provides an insider's view on the experiments of the Large Hadron Collider. <u>The Startup Game</u> by William H. Draper III Foreword by Eric Schmidt, Executive Chairman, Google

Signed by Bill Draper, one of the West Coast's most successful venture capitalists and found of Sutter Hill Ventures in Palo Alto, California.

For more than 40 years, venture capitalist Bill Draper has worked with top entrepreneurs in Silicon Valley, where today's vision is made into tomorrow's reality. From the VC who saw the value in Skype, Zappos, and many

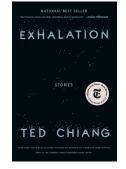


other companies, comes firsthand stories of success. In these pages Draper explores: how to evaluate innovative ideas and the entrepreneurs behind those ideas (lessons from Yahoo, Baidu, Tesla Motors, Activision, Measurex, and more); and the value of political leadership in creating opportunity, including on-the-ground accounts of how Deng Xiaoping brought China roaring into the modern world.

Exhalation: Stories by Ted Chiang

Signed by Ted Chiang, winner of four Hugo, four Nebula and four Locus awards.

The collection of short fiction was named one of the 10 Best Books of 2019 by the New York Times; also named one of the best books of the year by The Washington Post, Time Magazine, NPR, Esquire, Vox, The A.V. Club, The Guardian, Financial Times, and the Dallas Morning News. This ground-breaking new collection of nine stunningly original, provocative, and poignant stories to



stunningly original, provocative, and poignant stories tackle some of humanity's oldest questions along with new quandaries only Ted Chiang could imagine.

Bonus: CERN: Accelerating Science momento signed by Dr. Fabiola Gianotti

This 20-page pamphlet walks you through 60+ years of CERN.

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The Foundation's mission is to promote, enable, and recognize the power of imagination to benefit humanity.

Support Us

Arthur C. Clarke worried about, and had hopes for, the future of the Earth and its inhabitants. He believed in the power of imagination in partnership with empirical rigor. He foresaw that we have entered a period of major change, and with it, major challenges. To address them we need fresh, big ideas and bold action. He believed that "The only way of discovering the limits of the possible is to venture a little way past them into the impossible."

"Unleash Imagination – Shape the Future" is premised on Arthur Clarke's optimism that we can secure the future of humanity by promoting imaginative thinking and harnessing its power. Throughout this Centenary year and beyond, we will be launching programs in which we will try to answer the questions:

- How can we tap the imagination and views of younger generations who will live with the results of the decisions and actions we do or don't take today?
- What can we do to help the world's youth turbocharge the power of their imaginations across multiple skills and perspectives?
- What can we do to inspire adults and institutions to nurture imaginative approaches to challenges both big and small?
- How do we direct this renaissance in imagination toward the challenges of the future?

Yet not every organization, and not every environment welcomes imagination as more than interesting, but not applicable to the challenge at hand. In promoting Sir Arthur's legacy, the Foundation and its partners see imagination as:

- 1) the essential tool to address the complex, consequential, and thorny challenges humankind is facing,
- 2) the connective tissue between science and the arts,
- 3) central to the future of our planet.

We begin today to examine how to unleash the power of imagination.

www.clarkefoundation.org/donations/

"Arthur Clarke said that 'the only way to understand the limits of the possible is to venture a little way past them into the impossible.' Keep believing in the linkages between the possible and the impossible! Even better, build your lives around that pairing of the two! But solutions to our planet's perils demand more than imagination. Creativity must drive action. We must move from intentions to impact. That goes beyond creating brilliant technology. It goes beyond policy. It calls for the purely human qualities of willingness, humility, and high purpose toward a greater good."

"Isn't it amazing what we can accomplish with fair warning! Either we can imagine a different outcome and rethink the paths that we are taking in education, corporate development, ecology, science, policy, the arts, compassion endeavors, food supply, clean water, energy, and so on into every tentacle of our lives, with the result of shaping a healthy future. Or, we can stay on the paths we're on. And then what?"

Stephen Hawking, December 2017

